

## Message Text

SECRET

PAGE 01 MOSCOW 01920 01 OF 02 121306Z

53

ACTION SS-25

INFO OCT-01 ISO-00 SSO-00 NSCE-00 CIAE-00 DODE-00 INRE-00

AECE-00 /026 W

----- 124130

O 121235Z FEB 75

FM AMEMBASSY MOSCOW

TO SECSTATE WASHDC IMMEDIATE 7112

S E C R E T SECTION 1 OF 2 MOSCOW 1920

EXDIS

E.O. 11652 EXGDS-3

TAGS: PARM, US, UE

SUBJ: TTBT-PNE PLENARY - FEBRUARY 12, 1975

TTBT-PNE DELEGATION MESSAGE NUMBER FOUR

1. SUMMARY: SECOND PLENARY HELD MORNING FEBRUARY 12. THE AMBASSADOR PRESENTED US PROPOSAL THAT AGGREGATE YIELD OF CONTAINED PNE EVENTS BE LIMITED TO NO MORE THAN 100 KILOTONS SUBJECT TO ADEQUATE VERIFICATION. THE PRIMARY ELEMENTS OF VERIFICATION FOR CONTAINED EXPLOSION ARE SEISMIC MEASUREMENTS, INFORMATION EXCHANGE AND OBSERVER FUNCTIONS. INFORMATION TO BE EXCHANGED WAS DESCRIBED. THE PURPOSE OF ON-SITE OBSERVATION WAS BRIEFLY STATED.

MOROKHOV SAID HE WAS NOT PREPARED TO OFFER COMMENTS NOW, BUT WOULD STUDY CAREFULLY, AND RESPOND AT FUTURE MEETING. SOVIET DELEGATES POSED NO QUESTIONS. MOROKHOV DID NOT HAVE A PREPARED STATEMENT.

NEXT MEETING SCHEDULED FOR 10:30 A.M. FIRDAY, FEBRUARY 14. END SUMMARY.

2. SECOND PLENARY HELD MORNING FEBRUARY 12. THE AMBASSADOR WAS IN CHAIR. TEXT OF HIS REMARKS FOLLOWS:

3. BEGIN TEXT: IN MY STATEMENT THIS MORNING I WILL  
SECRET

SECRET

PAGE 02 MOSCOW 01920 01 OF 02 121306Z

PRESENT TO YOU OUR PROPOSAL FOR THE REGULATION OF CON-

TAINED PNES AS PART OF THE BASIS FOR AN AGREEMENT IN IMPLEMENTATION OF ARTICLE III OF THE THRESHOLD TEST BAN TREATY OF JULY 3, 1974.

WE HAVE NOT ATTEMPTED TO DEVISE A POLISHED DEFINITION OF A CONTAINED PNE. HOWEVER, WE BELIEVE THAT WE BOTH UNDERSTAND THAT TERM TO MEAN AN UNDERGROUND NUCLEAR EXPLOSION FOR A PEACEFUL PURPOSE THAT DOES NOT INVOLVE DYNAMIC RUPTURE OF THE EARTH'S SURFACE AND FOR WHICH THE EMPLACEMENT IS DESIGNED SO THAT THE RADIOACTIVE PRODUCTS OF THE EXPLOSION ARE RETAINED UNDERGROUND.

DURING THE COURSE OF THESE NEGOTIATIONS, THE US SIDE HAS STATED ON A NUMBER OF OCCASIONS OUR GENERAL APPROACH TO THE VERIFICATION OF UNDERGROUND NUCLEAR EXPLOSIONS FOR PEACEFUL PURPOSES. THE OBJECTIVE, OF COURSE, IS TO ASSURE THAT PNE'S ARE NOT USED TO OBTAIN WEAPONS-RELATED BENEFITS WHICH ARE OTHERWISE PRECLUDED OR LIMITED BY THE THRESHOLD TEST BAN TREATY OF JULY 1974.

WE ARE CONVINCED THAT IT IS NOT FEASIBLE TO VERIFY THAT A CONTAINED PNE HAVING A YIELD GREATER THAN THE THRESHOLD VALUE STATED IN THE JULY 3, 1974 TREATY COULD NOT BE USED TO OBTAIN WEAPON-RELATED BENEFITS PRECLUDED BY THAT TREATY. EVEN THOUGH A LEGITIMATE PEACEFUL PURPOSE IS ACCOMPLISHED BY A CONTAINED EXPLOSION, THERE ARE NO FEASIBLE MEANS TO ENSURE THAT WEAPON INFORMATION COULD NOT ALSO BE OBTAINED.

IT IS CLEAR THAT IN GENERAL THE DETERMINATION OF THE YIELD OF A PNE EVENT IS MORE UNCERTAIN THAN FOR NUCLEAR EXPLOSIONS CONDUCTED AT SPECIFIED NUCLEAR WEAPON TEST SITES UNDER THE TERMS OF THE THRESHOLD TEST BAN TREATY OF JULY 1974.

IT IS THEREFORE OUR VIEW THAT ADEQUATE ASSURANCE OF TREATY COMPLIANCE FOR CONTAINED UNDERGROUND EXPLOSIONS CAN BE ACHIEVED ONLY IF THE TOTAL AGGREGATE YIELD OF  
SECRET

SECRET

PAGE 03 MOSCOW 01920 01 OF 02 121306Z

CONTAINED PNE EVENTS IS LIMITED TO 100 KILOTONS AND IF WE ARE ABLE TO CONFIRM TWO THINGS WITH REASONABLE CONFIDENCE: FIRST, THE ACTUAL YIELD OF THE EXPLOSION; AND SECOND THAT ALL OTHER CONDITIONS ASSOCIATED WITH THE EXPLOSION ARE CONSISTENT WITH THE STATED PEACEFUL PURPOSE.

FOR THESE REASONS THE US SIDE PROPOSES THAT SUBJECT

TO ADEQUATE VERIFICATION PROVISIONS THE AGGREGATE  
YIELD OF CONTAINED PNE EVENTS BE LIMITED TO NO MORE  
THAN 100 KILOTONS.

THE PRIMARY ELEMENTS OF YIELD VERIFICATION FOR  
CONTAINED EXPLOSIONS ARE SEISMIC MEASUREMENTS, INFOR-  
MATION EXCHANGE AND OBSERVER FUNCTIONS. SCIENTISTS  
OF BOTH OF OUR DELEGATIONS HAVE DISCUSSED THE ROLE  
OF SEISMIC MEASUREMENTS EXTENSIVELY IN PAST SESSIONS  
HERE. WE BELIEVE IT IS AGREED BY BOTH SIDES THAT  
NATIONAL TECHNICAL MEANS ARE ADEQUATE FOR OBTAINING  
THE NECESSARY SEISMIC DATA, BUT THAT THE EXCHANGE OF  
CERTAIN INFORMATION IS ESSENTIAL IN THE ESTIMATION OF  
YIELD FROM SEISMIC DATA.

SECRET

NNN

SECRET

PAGE 01 MOSCOW 01920 02 OF 02 121323Z

42

ACTION SS-25

INFO OCT-01 ISO-00 SSO-00 NSCE-00 CIAE-00 DODE-00 INRE-00

AECE-00 /026 W

----- 124332

O 121235Z FEB 75

FM AMEMBASSY MOSCOW

TO SECSTATE WASHDC IMMEDIATE 7113

S E C R E T SECTION 2 OF 2 MOSCOW 1920

EXDIS

IT IS NECESSARY THAT WE EXCHANGE INFORMATION IN  
ADVANCE ON THE PURPOSE, DATE, TIME, DMTH, YIELD, AND  
GEOGRAPHICAL COORDINATES OF ALL EXPLOSIONS. WE WILL  
NEED TO ESTABLISH AN ADEQUATE PERIOD OF TIME FOR ADVANCE  
NOTIFICATION OF THESE FACTS. THE STATEMENT OF PURPOSE  
MUST ENCOMPASS A PROJECT PLAN AND SCHEDULE OF ACTIVITIES  
RELATED TO THE EVENT. THIS WOULD INCLUDE

-- A FULL AND CLEAR DESCRIPTION OF THE PLANNED EVENT  
-- DETAILS ON THE EMPLACEMENT OF THE DEVICE

-- THE PLANNED TIME OF THE EMBLACEMENT  
-- THE PLANNED TIME OF THE EXPLOSION  
-- THE DEPTH OF BURIAL  
-- ITS RELATIONSHIP TO NEARBY GEOLOGICAL FEATURES,  
AND OTHER RELEVANT FEATURES WHICH EITHER INFLUENCE THE  
OBJECTIVES OF THE EXPLOSION OR CONSTRAIN THE YIELD,  
DEPTH OR OTHER CHARACTERISTICS.

IT WILL ALSO BE NECESSARY TO EXCHANGE INFORMATION  
ON THE GEOLOGY AND THE GEOPHYSICAL PROPERTIES OF THE  
MEDIUM AT AND NEAR THE BURST POINT. THIS MUST INCLUDE  
A DESCRIPTION OF THE GEOLOGICAL SECTION AND A STATEMENT  
OF THE BASIC PHYSICAL PROPERTIES OF THE LITHOLOGICALLY  
DISTINCT ROCK UNITS PRESENT, INCLUDING DENSITY, ROCK  
STRENGTH, SEISMIC VELOCITY, POROSITY, DEGREE OF WATER  
SECRET

SECRET

PAGE 02 MOSCOW 01920 02 OF 02 121323Z

SATURATION AND THE DEPTH OF THE WATER TABLE. DATA WOULD  
BE PROVIDED AFTER THE EXPLOSION ON THE ACTUAL YIELD  
AND ON THE RESULTS OBTAINED.

IN ADDITION TO THE INFORMATION WHICH I HAVE  
SKETCHED ABOVE, WE BELIEVE THAT THE PRESENCE OF OBSERVERS  
IS NECESSARY TO VERIFY THE INFORMATION TO BE EXCHANGED.  
THE PURPOSES OF ON-SITE OBSERVATION FOR CONTAINED PNE  
EVENTS WOULD BE (1) TO VERIFY THE DEPTH OF BURIAL AND  
THE GEOLOGICAL AND GEOPHYSICAL CHARACTERISTICS OF THE  
ROCK AT THAT DEPTH AS A PART OF YIELD DETERMINATION  
AND (2) TO VERIFY THAT LOCAL CIRCUMSTANCES ARE CONSISTENT  
WITH THE STATED PURPOSE OF THE EVENT, INsofar AS  
POSSIBLE.

I HAVE BRIEFLY OUTLINED IN THIS STATEMENT BASIC  
ELEMENTS OF VERIFICATION AS THEY APPLY TO APPLICATIONS  
OF CONTAINED PNES.

I WOULD NOTE THAT ANY AGREEMENT WE MIGHT REACH  
HERE WOULD BE IN THE CONTEXT OF THE THRESHOLD YIELD  
VALUE STATED IN THE TREATY OF JULY 3, 1974. IF FUTURE  
REVISIONS OF THE THRESHOLD OR OTHER FORMS OF LIMITATION  
ON NUCLEAR WEAPON TESTS WERE TO BE NEGOTIATED, THEN  
THIS PNE PROVISION MIGHT ALSO HAVE TO BE REVISED. END  
TEXT.

4. FOLLOWING SESSION, MOROKHOV SUGGESTED ADJOURNING  
TO ADJOINING ROOM FOR A RESTRICTED MEETING AS HAD BEEN  
AGREED (REPORT SENT SEPTEL).  
STOESSEL

SECRET

NNN

## Message Attributes

**Automatic Decaptioning:** Z  
**Capture Date:** 01 JAN 1994  
**Channel Indicators:** n/a  
**Current Classification:** UNCLASSIFIED  
**Concepts:** MEETING DELEGATIONS, NEGOTIATIONS, PEACEFUL NUCLEAR EXPLOSIONS  
**Control Number:** n/a  
**Copy:** SINGLE  
**Draft Date:** 12 FEB 1975  
**Decaption Date:** 28 MAY 2004  
**Decaption Note:** 25 YEAR REVIEW  
**Disposition Action:** RELEASED  
**Disposition Approved on Date:**  
**Disposition Authority:** SmithRJ  
**Disposition Case Number:** n/a  
**Disposition Comment:** 25 YEAR REVIEW  
**Disposition Date:** 28 MAY 2004  
**Disposition Event:**  
**Disposition History:** n/a  
**Disposition Reason:**  
**Disposition Remarks:**  
**Document Number:** 1975MOSCOW01920  
**Document Source:** CORE  
**Document Unique ID:** 00  
**Drafter:** n/a  
**Enclosure:** n/a  
**Executive Order:** X3  
**Errors:** N/A  
**Film Number:** D750050-0980  
**From:** MOSCOW  
**Handling Restrictions:** n/a  
**Image Path:**  
**ISecure:** 1  
**Legacy Key:** link1975/newtext/t19750250/aaaabsxc.tel  
**Line Count:** 221  
**Locator:** TEXT ON-LINE, ON MICROFILM  
**Office:** ACTION SS  
**Original Classification:** SECRET  
**Original Handling Restrictions:** EXDIS  
**Original Previous Classification:** n/a  
**Original Previous Handling Restrictions:** n/a  
**Page Count:** 5  
**Previous Channel Indicators:** n/a  
**Previous Classification:** SECRET  
**Previous Handling Restrictions:** EXDIS  
**Reference:** n/a  
**Review Action:** RELEASED, APPROVED  
**Review Authority:** SmithRJ  
**Review Comment:** n/a  
**Review Content Flags:**  
**Review Date:** 22 APR 2003  
**Review Event:**  
**Review Exemptions:** n/a  
**Review History:** RELEASED <22 APR 2003 by GarlanWA>; APPROVED <24 OCT 2003 by SmithRJ>  
**Review Markings:**

Margaret P. Grafeld  
Declassified/Released  
US Department of State  
EO Systematic Review  
05 JUL 2006

**Review Media Identifier:**  
**Review Referrals:** n/a  
**Review Release Date:** n/a  
**Review Release Event:** n/a  
**Review Transfer Date:**  
**Review Withdrawn Fields:** n/a  
**Secure:** OPEN  
**Status:** NATIVE  
**Subject:** TTBT-PNE PLENARY - FEBRUARY 12, 1975 TTBT-PNE DELEGATION MESSAGE NUMBER FOUR  
**TAGS:** PARM, US  
**To:** STATE  
**Type:** TE  
**Markings:** Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 05 JUL 2006